$$V_{be} = a + b \cdot \ln\left(\frac{I_c}{1000}\right) + c\frac{I_c}{1000} \; ; \; V_{be} = a_2 + b_2 \cdot \ln\left(\frac{I_c}{1000}\right) + c_2\left(\frac{I_c}{1000}\right)^n$$